

1st EU-SOLARIS Summer School

"Sustainable Water Management in CST Plants."

5 – 6 June 2025, Almería

Invited Speakers



Dr. Florian Wiesinger

[Deutsches Zentrum Fur Luft Und Raumfahrt Ev – DLR](#)

"Characterization, monitoring, and preventive measures to avoid clean-up."

Dr. Florian Wiesinger completed his PhD in 2018, specializing in the erosion effects on Concentrated Solar Power (CSP) mirrors caused by sandstorms. Since then, his research has primarily focused on the degradation of materials used in solar technologies, covering both Concentrated Solar Power (CSP) and Photovoltaics (PV). His work encompasses the development and application of advanced material characterization techniques, lifetime analysis, and component qualification methodologies.



PhD student Johannes Wette

[CIEMAT](#) – [PLATAFORMA SOLAR DE ALMERÍA](#)

"Cleaning methods. Water saving efficiency"

PhD student Johannes Wette has worked in the field of CST research at the PSA since 2012. He worked as a researcher and project manager at the DLR for nine years within the joint working group Optical Aging Characterization Laboratory (OPAC) and since 2021 in the same group at CIEMAT. His focus is on the measurement of optical properties and the determination of the durability of CST materials, as reflectors and receivers. He is finishing his PhD project with the University of Almería at the moment.

Invited Speakers



Dr. Patricia Palenzuela

CIEMAT – PLATAFORMA SOLAR DE ALMERÍA

"Water saving in CSP by alternative cooling systems."

Dra. Patricia Palenzuela is a Researcher at CIEMAT since 2008 and with permanent contract since 2024. Her research career is focused on modeling and experimental characterization of solar thermal processes, such as desalination, brine concentration and cooling. She has participated (and participates) in 5 National Projects, 21 International Projects and 8 research contracts with national and international Private Companies. She has published 55 articles in JCR journals and is currently responsible at PSA for the Scientific Facilities and Technical Services for solar water treatment, desalination and the energy testing laboratory for building components.



Dr. Marios C. Georgiou

The Cyprus Institute – CYI

"CSP+D (Concentrating Solar Power and Desalination)"

Dr. Marios C. Georgiou is a Senior Researcher at The Cyprus Institute and Manager of the PROTEAS Renewable Energy Facility. He holds a PhD in Environmental and Atmospheric Sciences and has over a decade of experience in solar thermal energy systems, renewable energy integration, and energy storage technologies. Dr. Georgiou has extensive expertise in desalination, particularly in solar-powered desalination systems, with a strong track record in system design, operation, and experimental validation. He has coordinated and contributed to numerous European and national R&D projects focused on innovative energy and water solutions. He also serves as Cyprus's representative in EU-SOLARIS ERIC and is a Steering Committee member of the CSP Joint Programme under EERA. His research has resulted in multiple peer-reviewed publications and active collaborations with both academic and industrial partners across Europe and the Mediterranean region.

Invited Speakers

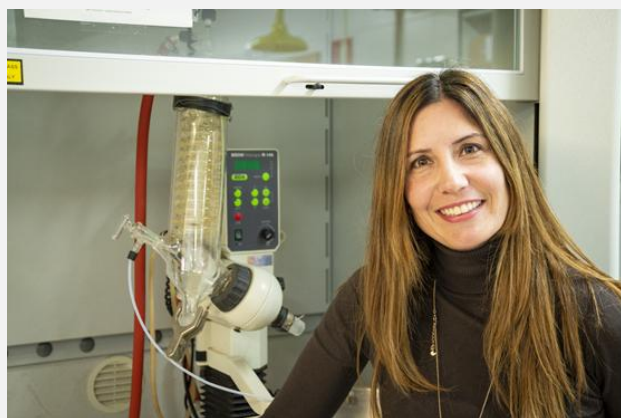


Dr. Diego-César Alarcón Padilla

[CIEMAT](#) – [PLATAFORMA SOLAR DE ALMERÍA](#)

"Integration of multi-effect distillation for water recovery in parabolic trough CSP plants"

Dr. Diego-César Alarcón Padilla holds a degree in Physics from the University of Granada and a PhD from the University of La Laguna. He is a senior researcher at the Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) and, since 1994, has been working at the Plataforma Solar de Almería (PSA) in the field of concentrated solar radiation technologies and applications. For more than two decades, his research has focused on water desalination processes using solar energy. He currently leads the Line-Focus Concentrating Solar Thermal Technologies R&D Unit at PSA-CIEMAT.



Dr. Isabel Oller

[CIEMAT](#) – [PLATAFORMA SOLAR DE ALMERÍA](#)

"Wastewater Recovery by alternative water treatment technologies in industry."

Dra. Isabel Oller holds a PhD in Chemical Engineering from the University of Almería (2008). She was awarded as "Extraordinary PhD award 2007-2008" by the University of Almería in the category of Experimental Sciences.

She is Head of the Solar Treatment of Water Research Unit at the Plataforma Solar de Almería (CIEMAT). She is co-leader of the Research Group of Environmental Analysis from CIESOL (Joint Research Centre in Solar Energy between CIEMAT and the University of Almería).

Dr. Isabel Oller has more than 25 years of experience in the field of industrial and urban wastewater treatment, disinfection and reuse by using advanced oxidation processes (with and without solar energy) and their combination with physic-chemical pre-treatments, advanced biological processes, membrane systems and other conventional technologies. She has developed this activity under her participation in more than 25 R+D European, national, regional and international Projects.

She has been awarded with the Royal Academy of Sciences Foundation Award for young female scientific talent in the category of Applications of Science to Technology (2024). Isabel Oller is among the 2% of the most influential researchers worldwide by area of knowledge in the years 2019 and 2022, according to the ranking prepared by Stanford University (California, United States) in collaboration with Elsevier.

Invited Speakers



Dr. Hande Eryilmaz

ODTÜ-GÜNAM

*"Systematizing Innovation for Water Resilience:
Pathways to Implementation and Policy"*

Dr. Hande Eryilmaz is a senior researcher at ODTÜ-GÜNAM with an interdisciplinary background in industrial engineering and science and technology policy studies. She has both academic and sector experience and currently has leadership roles in EU-funded projects: SolarHub, Solarize and CST4ALL. Her research interests include innovation management, project and quality management, systems thinking, energy policy and governance, science communication and sustainability. She is a keen advocate of gender equality in the energy sector.



Dr. Daniel Garrain

CIEMAT – MADRID

*"Principles of methodologies for Water Footprint
calculation from a Life Cycle Assessment approach."*

Head of the Energy Systems Analysis Unit at CIEMAT (Madrid, Spain). Dr. Daniel Garrain obtained his Ph.D. Chemical Engineering at Universitat Jaume I (Castellón, Spain) in 2009. Since then, his professional and research activities in CIEMAT have been and are focused on the areas of Life Cycle Assessment, circular economy and sustainability and their applications to industrial products and processes, mainly to emerging energy technologies. He joined a six-month grant as visiting researcher at INRA-AgroParisTech UMR Ecosys (Thiverval-Grignon, Paris, France) in 2015. He joined another one-year stay in the Clean Energy Research Center at University of South Florida (Tampa, US) in 2022/23. He has participated in national and European projects and published numerous research papers in journals, books, book chapters, and national and international conferences. He has also conducted two Ph.D. theses. Finally, his professional activity is complemented as an adjunct professor at Universidad Complutense (Madrid, Spain) for more than 3 years, in the Pharmacy and Chemical Engineering departments, and as a trainer in several specific courses about LCA and environmental issues.